

12 KAR 1:170. Germination standards for flower seed.

RELATES TO: KRS 250.081(1)(c)9

STATUTORY AUTHORITY: KRS 250.081

NECESSITY, FUNCTION, AND CONFORMITY: KRS 250.081(1)(c)9 requires the director to secure the efficient enforcement of the provisions of KRS 250.021 through 250.111. This administrative regulation establishes standards for flower seed and to list those kinds for which standard testing procedures are established.

Section 1. Flower Seed Standards. (1) The kinds of flower seed listed in the table established in this subsection shall be those for which standard testing procedures have been established. Common names are listed first, followed by Latin names. The percentage listed opposite each kind is the germination standard for that kind. For the kinds marked with an asterisk, the percentage is the total of percentage germination and percentage hard seed. For other kinds, it is the percentage germination.

Kind	Germination %
Archillea (The Pearl) - Achillea ptarmica	50
African daisy - Dimorphotheca aurantiaca	55
African violet - Saintpaulia spp.	30
Ageratum - Ageratum mexicanum	60
Agrostemma (rose campion) - Agrostemma coronaria	65
Alyssum - Alyssum compactum, A. maritimum, A. procumbens, and A. saxatile	60
Amaranthus - Amaranthus spp.	65
Anagalis (Primpernel) - Anagalis arvensis, A. coerulea, and A. grandiflora	60
Anemone - Anemone coronaria, and A. pulsatilla	55
Angel's trumpet - Datura arborea	60
Arabis - Arabis alpina	60
Arctotis (African lilac daisy) - Arctotis grandis	45
Armeria - Armeria formosa	55
Asparagus, Fern - Asparagus plumosus	50
Asparagus, Sprenger - Asparagus sprengeri	55
Aster, China - Callistephus	55

chinensis; except Pompon, Powderpuff, and Princess types	
Aster, China - <i>Callistephus chinensis</i> ; Pompon, Powderpuff, and Princess types	50
Aubretia - <i>Aubretia deltoides</i>	45
Baby Smilax - <i>Aparagus asparagoides</i>	25
Balsam - <i>Impatiens balsamina</i>	70
Begonia - (<i>Begonia fibrous</i> rooted)	60
Begonia - (<i>Begonia tuberous</i> rooted)	50
Bells of Ireland - <i>Molucella laevis</i>	60
Brachycome (Swan River daisy) - <i>Brachycome iberidifolia</i>	60
Browallia - <i>Browallia elata</i> and <i>B. speciosa</i>	65
Buphtalum (Sunwheel) - <i>Buphtalum salicifolium</i>	60
Calceolaria - <i>Calceolaria spp.</i>	60
Calendula - <i>Calendula officinalis</i>	65
California poppy - <i>Eschscholzia californica</i>	60
Calliopsis - <i>Coreopsis bicolor</i> , <i>C. drummondii</i> , and <i>C. elegans</i>	65
Campulana:	
Canterbury bells - <i>Campanula medium</i>	60
Cup and saucer bellflower - <i>Campanula medium calycanthema</i>	60
Carpathian bellflower - <i>Campanula carpatica</i>	50
Peach bellflower - <i>Campanula persicifolia</i>	50
Candytuft, Annual - <i>Iberis amara</i> , and <i>I. umbellata</i>	65
Candytuft, Perennial - <i>Iberis gibraltarica</i> , and <i>I. sempervirens</i>	55
*Castor bean - <i>Ricinus communis</i>	60
Cathedral bells - <i>Cobaea scandens</i>	65

Celosia - Celosia argentea	65
Centaurea: Basket flower - Centaurea americana, Corn-flower - <i>C. cyanus</i> , Dusty miller - <i>C. candidissima</i> , Royal Centaurea - <i>C. imperialis</i> , Sweet sultan - <i>C. moschata</i> , and Velvet Centaurea - <i>C. gymnocarpa</i>	60
Cerastium (Snow-in-summer) - Cerastium biebersteinii and <i>C. tomentosum</i>	65
Chinese forget-me-not - <i>Cynoglossum amabile</i>	55
Chrysanthemum, Annual - Chrysanthmum carinatum, <i>C. coronarium</i> , and <i>C. segetum</i>	40
Cineraria - <i>Senecio cruentus</i>	60
Clarkia - <i>Clarkia elegans</i>	65
Cleome - <i>Cleome gigantea</i>	65
Coleus - <i>Coleus blumei</i>	65
Columbine - <i>Aquilegia</i> spp.	50
Coral bells - <i>Heuchera sanguinea</i>	55
Coreopsis, Perennial - <i>Coreopsis lanceolata</i>	40
Corn, Ornamental - <i>Zea mays</i>	75
Cosmos: Sensation, Mammoth, and Crested types - <i>Cosmos bipinnatus</i> ; and Klondyke type - <i>C. sulphureau</i>	65
Crossandra - <i>Crossandra infundibuliformis</i>	50
Dahlia - <i>Dahlia</i> spp.	55
Daylily - <i>Hemerocallis</i> spp.	45
Delphinium, Perennial: Belladonna and Bellamosum types; Cardinal larkspur - <i>Delphinium cardinale</i> ; Chinensis types; and Pacific giant, Gold medal, and other hybrids of <i>D. elatum</i>	55
Dianthus:	
Carnation - <i>Dianthus caryophyllus</i>	60
China pinks - <i>Dianthus chinensis</i> , <i>D. heddewigi</i> , and <i>D. heddensis</i>	70

Grass pinks - <i>Dianthus plumarius</i>	60
Maiden pinks - <i>Dianthus deltoides</i>	60
Sweet William - <i>Dianthus barbatus</i>	70
Sweet Wivelsfield - <i>Dianthus allwoodi</i>	60
Didiscus (Blue lace flower) - <i>Didiscus coerulea</i>	65
Doronicum (Leopard's bane) - <i>Doronicum caucasicum</i>	60
Dracaena - <i>Dracaena indivisa</i>	55
Dragon tree - <i>Dracaena draco</i>	40
English daisy - <i>Bellis perennis</i>	55
Flax:	
Golden flax - <i>Linum flavum</i> , Flowering flax - <i>L. grandiflorum</i> , and Perennial flax - <i>L. perenne</i>	60
Flowering maple - <i>Abutilon spp.</i>	35
Foxglove - <i>Digitalis spp.</i>	60
Gaillardia, Annual - <i>Gaillardia pulchella</i> and <i>G. picta</i>	45
Gaillardia, Perennial - <i>G. grandiflora</i>	45
Gerbera (transvaal daisy) - <i>Gerbera Jamesoni</i>	60
Geum - <i>Geum spp.</i>	55
Gilia - <i>Gilia spp.</i>	65
Glosiosa daisy (rudbeckia) - <i>Echinacea purpurea</i> and <i>Rudbeckia hirta</i>	60
Gloxinia - <i>Sinningia speciosa</i>	40
Godetia - <i>Godetia amoena</i> and <i>G. grandiflora</i>	65
Gourds:	
Yellow flowered - <i>Cucurbita pepo</i> , White flowered - <i>Lagenaria siceraria</i> , and Dishcloth - <i>Luffa cylindrica</i>	70
Gypsophilia:	
Annual baby's breath - <i>Gypsophila elegans</i> ; and Perennial baby's breath - <i>G. paniculata</i> , <i>G. pacifica</i> , and <i>G. repens</i>	70
Helenium - <i>Helenium autumnale</i>	40

nale	
Helichrysum - Helichrysum monstrosum	60
Heliopsis - Heliopsis scabra	55
Heliotrope - Heliotropium spp.	35
Helipterum (Acroclinium) - Helipterum roseum	60
Hesperis (Sweet rocket) - Hesperis matronalis	65
*Hollyhock - Althea rosea	65
Hunnemania (Mexican tulip poppy) - Hunnemania fumariaefolia	60
*Hyacinth bean - Dolichos lablab	70
Impatiens - Impatiens holstii and I. sultani	55
*Ipomea:	
Cypress vine - Ipomea quamoclit; Moonflower - I. Noctiflora; and Morning glories, Cardinal climber, Hearts and Honey vine - Ipomea spp.	75
Jerusalem-cross (Maltese cross) - Lychnis chalcedonica	70
Job's tears - Coix lacrymajobi	70
Kochia - Kochia childsi	55
Larkspur, Annual - Delphinium ajacis	60
Lantana - Lantana camara, L. hybrida	35
Lilium (Regal lily) - Lilium regale	50
Linaria - Linaria spp.	65
Lobelia, Annual - Lobelia erinus	65
Lunaria, Annual-Lunaria annua	65
*Lupine - Lupinus spp.	65
Marigold - Tagetes spp.	65
Marvel of Peru - Mirabilis jalapa	60
Matricaria (Feverfew) - Matricaria spp.	60
Mignonette - Reseda odorata	55
Myosotis - Myosotis alpestris, M. oblongata, and M. palustris	50
Nasturtium - Tropaeolum spp.	60

Nemesia - Nemesia spp.	65
Nemophila - Nemophila insignis	70
Nemophila, Spotted - Nemophila maculata	60
Nicotiana - Nicotiana affinis, N. sanderae, and N. sylvestris	65
Nierembergia - Nierembergia spp.	55
Nigella - Nigella damascena	55
Pansy - Viola tricolor	60
Penstemon - Penstemon barbatus, P. grandiflorus, P. laevigatus, and P. pubescens	60
Petunia - Petunia spp.	45
Phacelia - Phacelia campanularia, P. minor, and P. tanacetifolia	65
Phlox, Annual - Phlox drummondii (all types and varieties)	55
Physalis - Physalis spp.	60
Platycodon (Balloon flower) - Platycodon grandiflorum	60
Plumbago, Cape - Plumbago capensis	50
Ponytail - Beaucarnea recurvata	40
Poppy:	
Shirley poppy - Papaver rhoeas, Iceland poppy - Papaver nudicaule, Oriental poppy - P. orientale, and Tulip poppy - P. glaucum	60
Portulace - Portulaca grandiflora	55
Primula (primrose) - Primula spp.	50
Pyrethrum (painted daisy) - Pyrethrum coccineum	60
Salpiglossis - Salpiglossis gloxinaeflora and S. sinuata	60
Salvia:	
Scarlet sage - Salvia splendens, and Mealycup sage (Blue bedder) - Salvia farinacea	50
Saponaria - Saponaria ocymoides and S. vaccaria	60

Scabiosa, Annual - <i>Scabiosa atropurpurea</i>	50
Scabiosa, Perennial - <i>Scabiosa caucasica</i>	40
Schizanthus - <i>Schizanthus spp.</i>	60
*Sensitive plant (mimosa) - <i>Mimosa pudica</i>	65
Shasta daisy - <i>Chrysanthemum maximum</i> and <i>C. leucanthemum</i>	65
Silk oak - <i>Grevillea robusta</i>	25
Snapdragon - <i>Antirrhinum spp.</i>	55
Solanum - <i>Solanum spp.</i>	60
Statice - <i>Statice sinuata</i> and <i>S. suworonii</i> (flower heads)	50
Stocks:	
Common - <i>Mathiola incana</i> and Evening scented - <i>Mathiola bicornis</i>	65
Sunflower - <i>Helianthus spp.</i>	70
Sunrose - <i>Helianthemum spp.</i>	30
*Sweet pea, Annual and Perennial other than dwarf bush - <i>Lathyrus odoratus</i> and <i>L. latifolius</i>	75
*Sweet pea, Dwarf bush - <i>Lathyrus odoratus</i>	65
Tahoka daisy - <i>Machaeantha tanacetifolia</i>	60
Thunbergia - <i>Thunbergia alata</i>	60
Torch flower - <i>Tithonia speciosa</i>	70
Torenia (Wishbone flower) - <i>Torenia fournieri</i>	70
Tritoma - <i>Kniphofia spp.</i>	65
Verbena, Annual - <i>Verbena hybrida</i>	35
Vinca - <i>Vinca rosea</i>	60
Viola - <i>Viola cornuta</i>	55
Virginian stocks - <i>Malcolmia maritima</i>	65
Wallflower - <i>Cheiranthus allioni</i>	65
Yucca (Adam's needle) - <i>Yucca filamentosa</i>	50
Zinna (except Linearis and Creeping) <i>Zinnia angustifolia</i> ,	65

Z. elegans, Z. grandiflora, Z. gracillima, Z. haegeana, Z. multiflora, and Z. pumila	
Zinnia, Linearis and Creeping - Zinnia linearis and Sanvitaila procumbens	50
All other kinds	50

(2) A mixture of kinds of flower seed shall be considered to be below the standard if the germination of any kind or combination of kinds constituting twenty-five (25) percent or more of the mixture by number is below standard for the kind or kinds involved. (20 Ky.R. 3332; eff. 8-24-1994; 47 Ky.R. 103, 702; eff. 11-18-2020.)